

WHAT IS CLAIMED IS

1. A network device managing apparatus for managing a network to which a device which broadcasts a network managing packet at least once after activation is

5 connected, characterized by comprising:

packet receiving means for receiving a packet;

packet determining means for determining whether the packet received by said packet receiving means is a network managing packet;

10 device address acquiring means for acquiring from the packet the address of a device which has transmitted the packet, if said packet determining means determines that the packet is a network managing packet; and

device address registering means for registering  
15 the device address.

2. The apparatus according to claim 1, characterized in that the apparatus further comprises transmitting means for transmitting, to said device having the address acquired by said device address acquiring means,  
20 a verify packet for verifying that said device is a predetermined type of device, and

if a response indicating that said device is a predetermined type of device is returned as a response to the verify packet, said device address registering  
25 means registers the status of said device which has returned the response together with the address.

3. The apparatus according to claim 2, characterized in that the response to the verify packet contains information indicating the operating status of said device.

5 4. The apparatus according to claim 2, characterized in that said transmitting means transmits a verify packet for acquiring the status of a printer to said device having the acquired address, and, if a response indicating that said device is a printer is returned as  
10 a response to the verify packet, said device address registering means registers the address of said device and information indicating that said device is a printer.

5. The apparatus according to claim 1, characterized by further comprising display control means for  
15 controlling a display unit to display the address of said device registered by said device address registering means.

6. The apparatus according to claim 2, characterized by further comprising display control means for  
20 controlling a display unit to display the address of said device registered by said device address registering means together with the status of said device.

7. A network system comprising:  
25 a network device for broadcasting a network managing packet at least once after activation;

a device information server for storing  
information concerning a device connected to a network;  
and

5 a network device managing apparatus comprising  
packet receiving means for receiving a packet, packet  
determining means for determining whether the packet  
received by said packet receiving means is a network  
managing packet, device address acquiring means for  
acquiring from the packet the address of a device which  
10 has transmitted the packet, if said packet determining  
means determines that the packet is a network managing  
packet, and device address registering means for  
registering the device address in said device  
information server.

15 8. The system according to claim 7, characterized in  
that said network device managing apparatus further  
comprises transmitting means for transmitting, to said  
device having the address acquired by said device  
address acquiring means, a verify packet for verifying  
20 that said device is an object of monitoring, and

if a response indicating that said device is an  
object of monitoring is returned as a response to the  
said verify packet, said device address registering  
means registers the status of said device which has  
25 returned the response together with the address.

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9. The system according to claim 8, characterized in that the response to the verify packet contains information indicating the operating status of said device.

5 10. The system according to claim 6, characterized in that said transmitting means transmits a verify packet for acquiring the status of a printer to said device having the acquired address, and, if a response indicating that said device is a printer is returned as  
10 a response to the verify packet, said address registering means registers the address of said device as a source of response and information indicating that said device is a printer.

11. The system according to claim 7, characterized by  
15 further comprising display means for displaying the address of said device registered by said address registering means.

12. The system according to claim 8, characterized by  
20 further comprising display means for displaying the address of said device registered by said address registering means together with the status of said device.

13. A network device managing method of managing a  
network to which a device which broadcasts a network  
25 managing packet at least once after activation is connected, characterized by comprising:

the packet receiving step of receiving a packet;  
the packet determining step of determining whether  
the packet received in said packet receiving step is a  
network managing packet;

5 the device address acquiring step of acquiring  
from the packet the address of a device which has  
transmitted the packet, if said packet determining step  
determines that the packet is a network managing packet;  
and

10 the device address registering step of registering  
the device address.

14. The method according to claim 13, characterized in  
that the method further comprises the transmitting step  
of transmitting, to said device having the address  
15 acquired in said device address acquiring step, a verify  
packet for verifying that said device is an object of  
monitoring, and

if a response indicating that said device is an  
object of monitoring is returned as a response to the  
20 said verify packet, said device address registering step  
comprises registering the status of said device which  
has returned the response together with the address.

15. The method according to claim 14, characterized in  
that the response to the verify packet contains  
25 information indicating the operating status of said  
device.



21. The apparatus according to claim 1, characterized  
by further comprising device address transmitting means  
for transmitting the address of said device registered  
by said device address registering means to an external  
5 client apparatus connected via the network.

22. The apparatus according to claim 1, characterized  
in that the network managing packet is an SNMP trap  
packet.